TEST RESULTS FOR CHAIN LINK FENCING

Lab ID	:	**CP-2019-12-16-39** **Date: 29-08-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, includes 10 works of Rs. 80.00 lakhs : 1.Addition and alteration works and construction of Tiolet at Existing Help point building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division. 2.Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout, in Ward no.06 Byatarayanapura Sub Division. 3.Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no. 06 Byatarayanapura Sub Division. 4.Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division. 5.Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 6.Maintenance of community property including parks in ward no.07 byatarayanapura 7.Improvements to footpath of vinayaka layout 1st stage main road in ward no.07, Byatarayanapura 8. Maintenance of general/public toilets in Ward No. 07 Byatarayanapura. 9.Maintenance of crematorium burial grounds and office maintenance in ward No.07 byatarayanapura. 10. Desilting of Storm Water Drains in ward no.07 Byatarayanapura
Agency	:	Sri. Gopi Reddy, # 03, 1st Cross, 1st Main, Ramachandra Layout, Veerannapalya, Arabic College(P), Bangalore-45
Customer's Reference	:	BBMP/EE/BTP/WO/79/2019-20
Sourse of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-08-19
Type of Sample	:	Chain Link Fencing
Reference to BIS codes	:	IS 2062:2011
Date of testing	:	28-08-19

TESTS RESULT FOR WIRE MESH

SL.NO	Description	Result
1	Average Thickness in mm	4.04
2	Dia of linewire in mm	3.14
3	Mesh size in mm	50.01
4	Nominaldia of meshwire in mm	2.52
5	Bend Test	Satisfactory

Note:
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R. Rudraprasad

R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL Pro Sig..... Date..... BANGALORE

Page 1 1
****End of Report****

AE(NT)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

TEST RESULTES FOR MS BLOCK PIPE

Lab ID	:	**CP-2019-12-16-39** **Date: 31-08-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	Sri. Gopi Reddy, # 03, 1st Cross, 1st Main, Ramachandra Layout, Veerannapalya, Arabic College(P) Bangalore-45
Project Name	:	Package-1, includes 10 works of Rs. 80.00 lakhs : 1.Addition and alteration works and construction of Tiolet at Existing Help point building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division. 2.Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout. in Ward no.06 Byatarayanapura Sub Division. 3.Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no . 06 Byatarayanapura Sub Division. 4.Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division. 5.Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 6.Maintenance of community property including parks in ward no 07 byatarayanapura 7.Improvements to footpath of vinayaka layout 1st stage main road in ward no.07, Byatarayanapura 8. Maintenance of general/public toilets in Ward No. 07 Byatarayanapura. 9 Maintenance of crematorium burial grounds and office maintenance in ward No.07 byatarayanapura. 10 Desilting of Storm Water Drains in ward no:07 Byatarayanapura
Customer's Reference	:	BBMP/EE/BTP/WO/79/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-19
Type of Sample	:	M.S Block Pipe
Reference to BIS codes	:	IS:1608-2005(RA 2011), IS 1599-2012.
Date of testing	:	30-08-19

TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE

Sl. No	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Yeild Stress (N/mm2)	299	250N/mm^2	Satisfactory
2	Tensile Strength (N/mm2)	509	410N/mm^2	Satisfactory
3	Elongation Percentage (%)	24	Min 23%	Satisfactory

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Authorized Signatory
Technical Manager

CIVIL PRO Sig..... Date..... BANGALORE

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : CP-2019-12-16-39 **Date: 21-09-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-1, includes 10 works of Rs. 80.00 lakhs : 1 Addition and alteration works and construction of Tiolet at Existing Help point building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division. 2 Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout, in Ward no.06 Byatarayanapura Sub Division. 3 Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no . 06 Byatarayanapura Sub Division. 4 Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division. 5 Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 6 Maintenance of community property including parks in ward no 07 byatarayanapura 7 Improvements to footpath of vinayaka layout 1st stage main road in ward no 07, Byatarayanapura 8. Maintenance of general/public toilets in Ward No. 07 Byatarayanapura. 9 Maintenance of crematorium burial grounds and office maintenance in ward No 07 byatarayanapura. 10 Desilting of Storm Water Drains in ward no 07 Byatarayanapura

Agency : Sri. Gopi Reddy, # 03, 1st Cross, 1st Main, Ramachandra Layout, Veerannapalya, Arabic College(P) Bangalore-45

Customer's Reference : BBMP/EE/BTP/WO/79/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-09-19

Sample Type /Size : CC Kerb Stone/ 400*150*500mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 16/09/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	80.01	150.51	2.264	5027	132.1	26.3	26.3	32.9
2	B	80.03	150.49	2.293	5029	135.2	26.9	26.9	33.6
3	C	80.01	150.50	2.215	5027	135.1	26.9	26.9	33.6

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Page 1/1
****End of Report****

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2019-12-16-39 **Date: 14-09-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-1, includes 10 works of Rs. 80.00 lakhs : 1.Addition and alteration works and construction of Tiolet at Existing Help point building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division. 2.Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout, in Ward no.06 Byatarayanapura Sub Division. 3.Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no . 06 Byatarayanapura Sub Division. 4.Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division. 5.Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 6.Maintenance of community property including parks in ward no.07 byatarayanapura 7.Improvements to footpath of vinayaka layout 1st stage main road in ward no.07, Byatarayanapura 8. Maintenance of general/public toilets in Ward No. 07 Byatarayanapura. 9. Maintenance of crematorium burial grounds and office maintenance in ward No.07 byatarayanapura. 10. Desilting of Storm Water Drains in ward no.07 Byatarayanapura

Agency : Sri. Gopi Reddy, # 03, 1st Cross, 1st Main, Ramachandra Layout, Veerannapalya, Arabic College(P) Bangalore-45

Customer's Reference : BBMP/EE/BTP/WO/79/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-19

Sample Type /Size : Precast Cover Slab (200mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 10/09/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	175.51	200.48	2.810	24189	181.9	7.5	7.0	8.7
2	Cover Slab-2	175.49	200.52	2.800	24183	180.3	7.5	6.9	8.7
3	Cover Slab-3	175.50	200.51	2.830	24186	180.5	7.5	6.9	8.7

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL PRO Sig. Date. BANGALORE

As Shall N.D
AE(Nat)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-12-16-39 **Date: 23-08-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-1, includes 10 works of Rs. 80.00 lakhs : 1.Addition and alteration works and construction of Tiolet at Existing Help point building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division, 2.Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout. in Ward no.06 Byatarayanapura Sub Division, 3.Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no. 06 Byatarayanapura Sub Division, 4.Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division, 5.Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 6.Maintenance of community property including parks in ward no 07 byatarayanapura 7.Improvements to footpath of vinayaka layout 1st stage main road in ward no 07, Byatarayanapura 8. Maintenance of general/public toilets in Ward No. 07 Byatarayanapura. 9 Maintenance of crematorium burial grounds and office maintenance in ward No.07 byatarayanapura. 10. Desilting of Storm Water Drains in ward no:07 Byatarayanapura

Agency : Sri Gopi Reddy, # 03, 1st Cross, 1st Main, Ramachandra Layout, Veerannapalya, Arabic College(P) Bangalore-45

Customer's Reference : BBMP/EE/BTP/WO/79/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-19

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11) 1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 21-08-19

Environmental Conditions during test : Temperature 26 C
Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	-
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	-
4	Standard Consistency (%)	0.28	Not specified
5	Initial Setting time	180 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P
Bangalore

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*****End of Report*****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-12-16-39 **Date: 18-09-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, includes 10 works of Rs. 80.00 lakhs : 1.Addition and alteration works and construction of Tiolet at Existing Help point building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division, 2.Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout, in Ward no.06 Byatarayanapura Sub Division. 3.Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no :06 Byatarayanapura Sub Division. 4.Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division. 5.Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 6.Maintenance of community property including parks in ward no 07 byatarayanapura 7.Improvements to footpath of vinayaka layout 1st stage main road in ward no.07, Byatarayanapura 8. Maintenance of general/public toilets in Ward No. 07 Byatarayanapura. 9 Maintenance of crematorium burial grounds and office maintenance in ward No.07 byatarayanapura. 10. Desilting of Storm Water Drains in ward no:07 Byatarayanapura
Agency	:	Sri. Gopi Reddy, # 03, 1st Cross, 1st Main, Ramachandra Layout, Veerannapalya, Arabic College(P) Bangalore-45
Customer's Reference	:	BBMP/EE/BTP/WO/79/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ; IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	21-08-19
Environmental Conditions during test	:	Temperature 26 C Humidity 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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FOR CIVIL Pro,
R RUDRAPRASAD
Authorized Signatory
Technical Manager

AE(1st)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO Sig..... Date..... BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2019-12-16-39 **Date: 23-08-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, includes 10 works of Rs. 80.00 lakhs : 1.Addition and alteration works and construction of Tiolet at Existing Help point building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division. 2.Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout, in Ward no.06 Byatarayanapura Sub Division. 3.Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no . 06 Byatarayanapura Sub Division. 4.Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division. 5.Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 6.Maintenance of community property including parks in ward no 07 byatarayanapura 7.Improvements to footpath of vinayaka layout 1st stage main road in ward no.07, Byatarayanapura 8. Maintenance of general/public toilets in Ward No. 07 Byatarayanapura. 9.Maintenance of crematorium burial grounds and office maintenance in ward No.07 byatarayanapura. 10. Desilting of Storm Water Drains in ward no:07 Byatarayanapura
Agency	:	Sri. Gopi Reddy, # 03, 1st Cross, 1st Main, Ramachandra Layout, Veerannapalya, Arabic College(P) Bangalore-45
Customer's Reference	:	BBMP/EE/BTP/WO/79/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	20-08-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-08-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	189	189	1.3	98.7	90-100
3	20 mm	7284	7473	49.8	50.2	30-70
4	10 mm	4089	11562	77.1	22.9	10-35
5	4.75 mm	3001	14563	97.1	2.9	0-5
6	Pan	437	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-12-16-39 **Date: 23-08-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.8	
3	Specific Gravity	2.66	-
4	Bulk Density(Loose) (Kg/l)	1.42	-
5	Bulk Density(Compacted) (Kg/l)	1.48	-
6	Water Absorption(%)	0.21	-

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Authorized Signatory
Technical Manager

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AE(LSG)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-12-16-39** **Date: 22-08-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore
Address	:	Kodigehalli Sub Division, BBMP, Bangalore
Project Name	:	Package-1, includes 10 works of Rs. 80.00 lakhs : 1.Addition and alteration works and construction of Tiolet at Existing Help point building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division, 2.Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout, in Ward no.06 Byatarayanapura Sub Division, 3.Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no . 06 Byatarayanapura Sub Division, 4.Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division, 5.Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 6.Maintenance of community property including parks in ward no 07 byatarayanapura 7.Improvements to footpath of vinayaka layout 1st stage main road in ward no.07, Byatarayanapura 8. Maintenance of general/public toilets in Ward No. 07 Byatarayanapura. 9.Maintenance of crematorium burial grounds and office maintenance in ward No.07 byatarayanapura. 10. Desilting of Storm Water Drains in ward no:07 Byatarayanapura
Agency	:	Sri. Gopi Reddy, # 03, 1st Cross, 1st Main, Ramachandra Layout, Veerannapalya, Arabic College(P) Bangalore-45
Customer Reference	:	BBMP/EE/BTP/WO/79/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-08-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	199	199	4.0	96.0	90-100
3	10 mm	3050	3249	65.0	35.0	25-55
4	4.75 mm	1502	4751	95.0	5.0	0-10
5	Pan	249	5000	100	0	

CIVIL PRO Sig..... Date..... BANGALORE

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-12-16-39 Date: 22-08-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Unerushed & Crushed Aggregate
2	Elongation Index(%)	12.7	
3	Specific Gravity	2.62	--
4	Bulk Density(Loose) (Kg/l)	1.48	--
5	Bulk Density(Compacted) (Kg/l)	1.55	--
6	Water Absorption(%)	0.27	--
7	Aggregate crushing Value(%)	23.9	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	23.1	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL PRO BANGALORE Sig..... Date.....

End of Report

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-12-16-39 **Date: 22-08-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-1, includes 10 works of Rs. 80.00 lakhs : 1.Addition and alteration works and construction of Tiolet at Existing Help point building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division. 2.Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout, in Ward no.06 Byatarayanapura Sub Division, 3.Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no . 06 Byatarayanapura Sub Division, 4.Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division. 5.Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 6.Maintenance of community property including parks in ward no 07 byatarayanapura 7.Improvements to footpath of vinayaka layout 1st stage main road in ward no 07, Byatarayanapura 8. Maintenance of general/public toilets in Ward No. 07 Byatarayanapura. 9 Maintenance of crematorium burial grounds and office maintenance in ward No 07 byatarayanapura. 10 Desilting of Storm Water Drains in ward no 07 Byatarayanapura

Agency : Sri. Gopi Reddy, # 03, 1st Cross, 1st Main, Ramachandra Layout, Veerannapalya, Arabic College(P) Bangalore-45

Customer's Reference : BBMP/EE/BTP/WO/79/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 20-08-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-12-16-39

Date: 22-08-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	
2	Specific Gravity	2.59	
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL PRO Sig. Date. BANGALORE

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Page 1/1
****End of Report****

AE(W)

TEST REPORT OF CERAMIC TILES

Lab ID	:	CP-2019-12-16-39 **Date: 01-10-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, includes 10 works of Rs. 80.00 lakhs : 1.Addition and alteration works and construction of Tiolet at Existing Help point building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division, 2.Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout, in Ward no.06 Byatarayanapura Sub Division, 3.Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no . 06 Byatarayanapura Sub Division, 4.Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division, 5.Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 6.Maintenance of community property including parks in ward no 07 byatarayanapura 7 Improvements to footpath of vinayaka layout 1st stage main road in ward no 07, Byatarayanapura 8. Maintenance of general/public toilets in Ward No. 07 Byatarayanapura. 9 Maintenance of crematorium burial grounds and office maintenance in ward No.07 byatarayanapura. 10 Desilting of Storm Water Drains in ward no 07 Byatarayanapura
Agency	:	Sri. Gopi Reddy, # 03, 1st Cross, 1st Main, Ramachandra Layout, Veerannapalya, Arabic College(P) Bangalore-45
Customer's Reference	:	BBMP/EE/BTP/WO/79/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-09-19
Sample Type/ Size	:	Ceramic tiles (400X400)mm
Reference to BIS codes	:	IS 13630 (part 1) : 2006, IS 15622:2006
Date of test	:	23-09-19

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	400	400	400	400	20.04	20.01	20.08	20.04
2	400	400	400	400	20.01	20.07	20.01	20.01
3	400	400	400	400	20.03	20.05	20.06	20.03
4	400	400	400	400	20.06	20.05	20.08	20.06
5	400	400	400	400	20.08	20.06	20.05	20.08
6	400	400	400	400	20.03	20.07	20.07	20.07
7	400	400	400	400	20.08	20.05	20.08	20.07
8	400	400	400	400	20.02	20.05	20.04	20.05
9	400	400	400	400	20.04	20.04	20.02	20.04
10	400	400	400	400	20.04	20.01	20.05	20.04
Average	**400**		**400**		**20.05**			

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1406	1455	3.49	2.85
2	1424	1464	2.81	
3	1464	1498	2.32	
4	1408	1454	3.27	
5	1434	1468	2.37	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	400	400	20.04	14.8	14.66
2	400	400	20.06	14.2	
3	400	400	20.02	14.9	
4	400	400	20.06	14.8	
5	400	400	20.05	14.6	

Note:

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FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL PRO Sig..... Date..... BANGALORE

Abdul. N.D
AE(Ret)

End of Report

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEST REPORT OF CERAMIC TILES

Lab ID : CP-2019-12-16-39 **Date: 01-10-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-1, includes 10 works of Rs. 80.00 lakhs : 1.Addition and alteration works and construction of Tiolet at Existing Help point building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division, 2.Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout, in Ward no.06 Byatarayanapura Sub Division. 3.Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no . 06 Byatarayanapura Sub Division, 4.Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division, 5.Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 6.Maintenance of community property including parks in ward no 07 byatarayanapura 7.Improvements to footpath of vinayaka layout 1st stage main road in ward no.07. Byatarayanapura 8. Maintenance of general/public toilets in Ward No. 07 Byatarayanapura. 9 Maintenance of crematorium burial grounds and office maintenance in ward No.07 byatarayanapura. 10 Desilting of Storm Water Drains in ward no:07 Byatarayanapura

Agency : Sri. Gopi Reddy, # 03, 1st Cross, 1st Main, Ramachandra Layout, Veerannapalya, Arabic College(P) Bangalore-45

Customer's Reference : BBMP/EE/BTP/WO/79/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-09-19

Sample Type/ Size : Ceramic tiles (150X150)mm

Reference to BIS codes : IS 13630 (part 1) : 2006, IS 15622:2006

Date of test : 23-09-19

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	150	150	150	150	6.04	6.01	6.08	6.04
2	150	150	150	150	6.01	6.07	6.01	6.01
3	150	150	150	150	6.03	6.05	6.06	6.03
4	150	150	150	150	6.06	6.05	6.08	6.06
5	150	150	150	150	6.08	6.06	6.05	6.08
6	150	150	150	150	6.03	6.07	6.07	6.07
7	150	150	150	150	6.08	6.05	6.08	6.07
8	150	150	150	150	6.02	6.05	6.04	6.05
9	150	150	150	150	6.04	6.04	6.02	6.04
10	150	150	150	150	6.04	6.01	6.05	6.04
Average	150		150		6.05			

CIVIL PRO Sig..... Date..... BANGALORE

TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1406	1455	3.49	2.85
2	1424	1464	2.81	
3	1464	1498	2.32	
4	1408	1454	3.27	
5	1434	1468	2.37	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	150	150	6.04	14.8	14.66
2	150	150	6.06	14.2	
3	150	150	6.02	14.9	
4	150	150	6.06	14.8	
5	150	150	6.05	14.6	

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FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

AE (Hort)

End of Report

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-16-39 **Date: 13/09/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-1, includes 10 works of Rs. 80.00 lakhs : 1.Addition and alteration works and construction of Tiolet at Existing Help point building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division. 2.Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout, in Ward no.06 Byatarayanapura Sub Division. 3.Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no 06 Byatarayanapura Sub Division. 4.Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division. 5.Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 6.Maintenance of community property including parks in ward no 07 byatarayanapura 7.Improvements to footpath of vinayaka layout 1st stage main road in ward no.07, Byatarayanapura 8. Maintenance of general/public toilets in Ward No. 07 Byatarayanapura. 9 Maintenance of crematorium burial grounds and office maintenance in ward No.07 byatarayanapura. 10 Desilting of Storm Water Drains in ward no:07 Byatarayanapura

Agency : Sri. Gopi Reddy, # 03, 1st Cross, 1st Main, Ramachandra Layout, Veerannapalya, Arabic College(P) Bangalore-45

Customer's Reference : BBMP/EE/BTP/WO/79/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-09-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	06/09/2019	13/09/2019	150.69 X 149.33 X 151.93	22502	**8.730**	409.0	18.2	18.4
2	RCC	M20	06/09/2019	13/09/2019	150.13 X 151.52 X 150.44	22749	**8.535**	420.9	18.5	
3	RCC	M20	06/09/2019	13/09/2019	150.44 X 150.71 X 151.28	22672	**8.284**	422.4	18.6	

Note:

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FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO Sig. Date. BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-16-39 **Date: 04/10/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore

Project Name : Package-1, includes 10 works of Rs. 80.00 lakhs : 1.Addition and alteration works and construction of Tiolet at Existing Help point building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division, 2.Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout, in Ward no.06 Byatarayanapura Sub Division. 3.Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no . 06 Byatarayanapura Sub Division. 4.Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division. 5.Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 6.Maintenance of community property including parks in ward no 07 byatarayanapura 7.Improvements to footpath of vinayaka layout 1st stage main road in ward no.07, Byatarayanapura 8. Maintenance of general/public toilets in Ward No. 07 Byatarayanapura. 9.Maintenance of crematorium burial grounds and office maintenance in ward No.07 byatarayanapura. 10. Desilting of Storm Water Drains in ward no.07 Byatarayanapura

Agency : Sri. Gopi Reddy, # 03, 1st Cross, 1st Main, Ramachandra Layout, Veerannapalya, Arabic College(P) Bangalore-45

Customer's Reference : BBMP/EE/BTP/WO/79/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-09-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	06/09/2019	04/10/2019	151.20 X 151.52 X 149.69	22909	8.892	541.0	23.6	23.1
2	RCC	M20	06/09/2019	04/10/2019	149.45 X 149.81 X 151.72	22391	8.035	500.2	22.3	
3	RCC	M20	06/09/2019	04/10/2019	151.05 X 150.15 X 151.14	22680	8.174	528.2	23.3	

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO Sig. Date. BANGALORE

****End of Report****

CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Lab ID	:	CP-2019-12-16-39 **Date: 09-10-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore
Address	:	Kodigehalli Sub Division, BBMP, Bangalore
Project Name	:	Package-1, includes 10 works of Rs. 80.00 lakhs : 1.Addition and alteration works and construction of Tiolet at Existing Help point building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division, 2.Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout, in Ward no.06 Byatarayanapura Sub Division, 3.Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no . 06 Byatarayanapura Sub Division, 4.Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division, 5.Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 6.Maintenance of community property including parks in ward no 07 byatarayanapura 7.Improvements to footpath of vinayaka layout 1st stage main road in ward no.07, Byatarayanapura 8. Maintenance of general/public toilets in Ward No. 07 Byatarayanapura. 9 Maintenance of crematorium burial grounds and office maintenance in ward No.07 byatarayanapura. 10 Desilting of Storm Water Drains in ward no:07 Byatarayanapura
Agency	:	Sri. Gopi Reddy, # 03, 1st Cross, 1st Main, Ramachandra Layout, Veerannapalya, Arabic College(P) Bangalore-45
Customer Reference	:	BBMP/EE/BTP/WO/79/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-10-19
Sample Type/ Size	:	Precast concrete blocks for paving
Reference to BIS codes	:	IS 15658:2006
Date of test	:	03-10-19

1.Compressive Strength

Sl.No.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	197.22	159.88	60.99	32.5	33.1
2	198.48	159.64	60.25	33.8	
3	199.54	159.54	60.48	32.5	
4	197.68	159.22	60.55	33.5	
5	198.11	159.87	60.32	32.8	
6	198.18	160.02	60.11	33.4	
7	198.45	158.99	60.98	33.2	
8	197.22	159.22	60.12	32.8	

2. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	60.85	3.29	3.64
2	4.898	4.721	60.22	3.75	
3	4.988	4.802	60.44	3.87	

Note:
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FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL PRO Sig..... Date..... BANGALORE

A hill. N.D AE(1st)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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